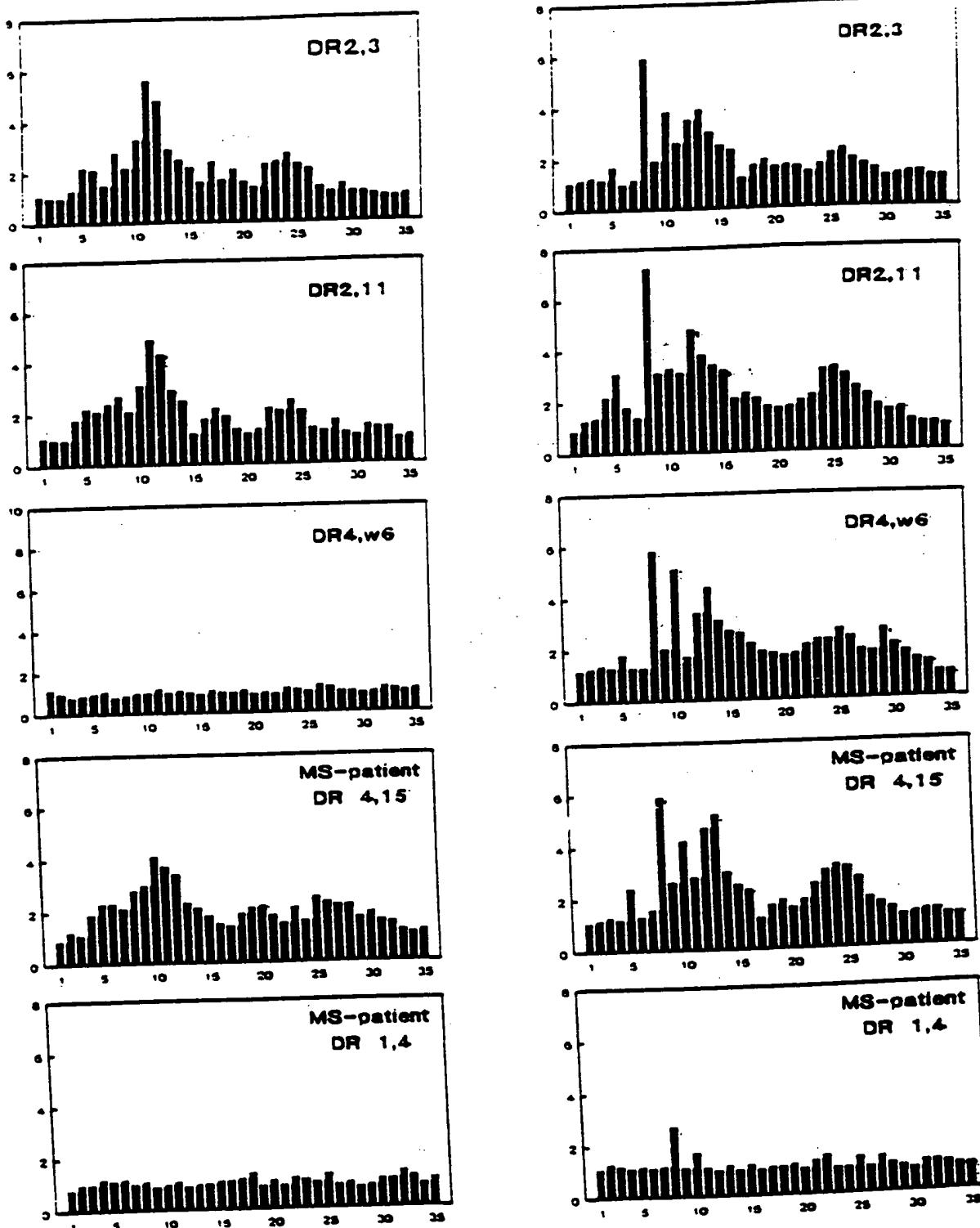


Fig. 1. Reversed-phase HPLC fractionation of total CNS myelin prot in.

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(Fig. 2. Proliferative responses of human T cells to fractionated CNS myelin proteins, after a 2-wk priming with total myelin protein.) The left series of panels illustrate responses to myelin proteins from control human brain; the right series to proteins from MS-affected brain. Alpha B crystallin is contained in fraction 8 of the HPLC fraction series.

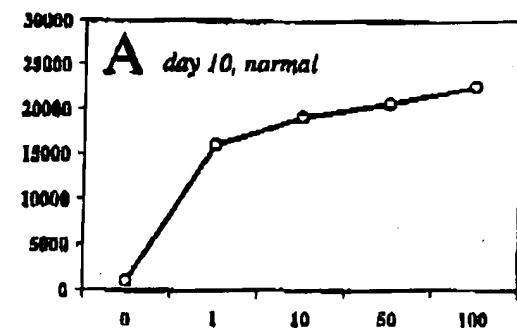
3/3

Fig. 3. Amino acid sequence of human alpha B crystallin

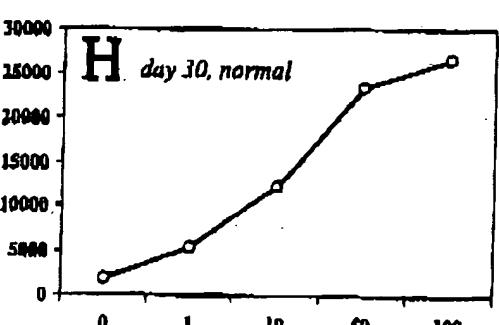
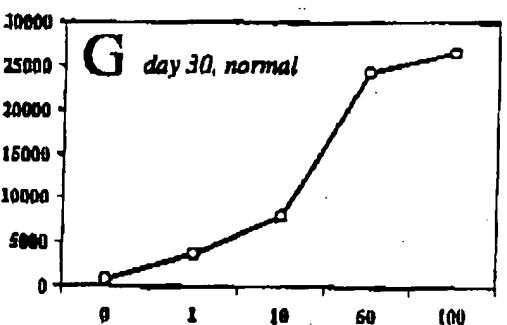
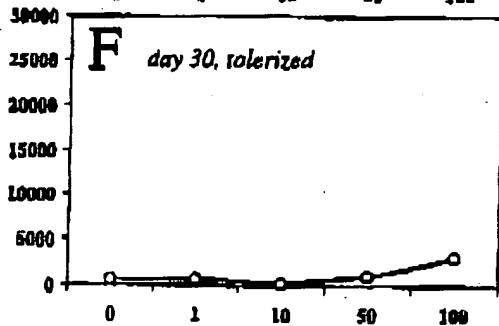
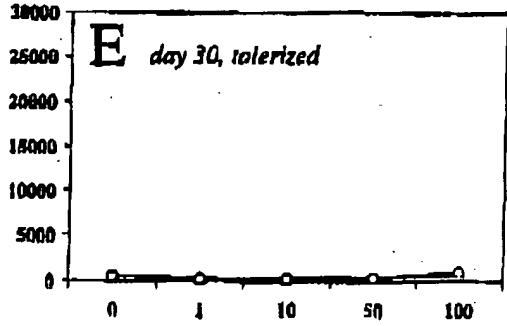
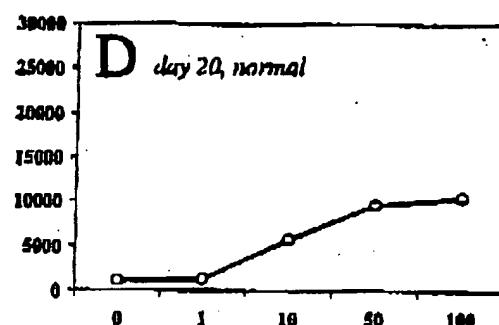
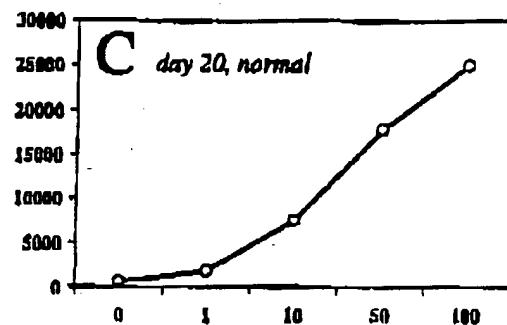
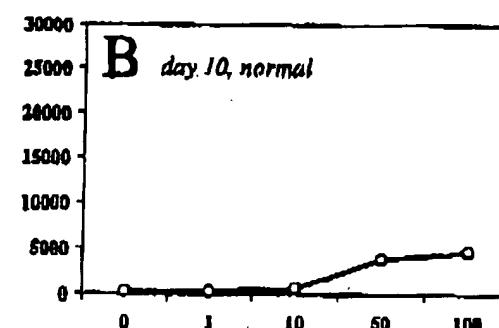
1 M D I A I H H P W I R R P F F P F H S P 20
5
21 S R L F D Q F F G E H L L E S D L F P T 40
41 S T S L S P F Y L R P P S F L R A P S W 60
10 61 F D T G L S E M R L E K D R F S V N L N 80
81 V K H F S P E E L K V K V L G D V I E V 100
101 H G K H E E R Q D E H G F I S R E F H R 120
15
121 K Y R I P A D V D P L A I T S S L S S D 140
141 G V L T V N G P R K Q V S G P E R T I P 160
20 161 I T R E E K P A V T A A P K K

81 71 5181901

Responses in lymph nodes



Responses in spleen



In vitro challenging dose of alpha B-crystallin (µg/ml)

Fig. 4. Oral administration of alpha B-crystallin on days 20-24 following immunization strongly reduces an ongoing T-cell response to the antigen (responses are given in terms of incorporation of [³H]-thymidine, expressed as counts per minute)